

PROGRESS REPORT  
For  
VERSATILE, HIGH PRECISION STEREO  
POINT TRANSFER DEVICE

Period Covered: November 1964  
Dated: 22 December 1964  
Job No.: #552 and #552A  
Document No.: OD-228

DDR-DUPE

STAT

#552 - OD-228

MANUAL FILM DRIVE

Much work has been done to lower torque to drive mechanism and film. Changing lubricant in special clutch, eliminating chain binding and reducing ratio slightly between handwheel and spool have reduced torque better than 50% of what was previously experienced by customer.

Manifolds still cause a major part of load seen at handwheel. Developments in vacuum holddown system will have to aid this problem.

WIRING

Circuit change involving two (2) multipole relays is complete and operates successfully. Main cabinet control panel, control cabinet and auxiliary cabinet are wired and are now in final check out phases. System will be fired up this month to provide a wider scanning speed range in the "coupled" mode of scan drive operation the zoom magnification factor in scanning velocity is omitted. Addition of a relay and wiring change have been started and will be completed in December.

Schematics and wiring diagrams are in the process of being up-dated.

ENCODERS

"Optisyn" encoders have been installed. A logic module has been borrowed from [ ] for encoder check out. A method of accuracy check out has to be considered that will fit under high power objective lens. There is only 7/32 inch air space under lens for grating on thin glass or film. If customer has any device able to fit into this space, tests will be augmented.

STAT

### MANUAL FILM DRIVE

Much work has been done to lower torque to drive mechanism and film. Changing lubricant in special clutch, eliminating chain binding and reducing ratio slightly between handwheel and spool have reduced torque better than 50% of what was previously experienced by customer.

Manifolds still cause a major part of load seen at handwheel. Developments in vacuum holddown system will have to aid this problem.

### WIRING

Circuit change involving two (2) multipole relays is complete and operates successfully. Main cabinet control panel, control cabinet and auxiliary cabinet are wired and are now in final check out phases. System will be fired up this month to provide a wider scanning speed range in the "coupled" mode of scan drive operation the zoom magnification factor in scanning velocity is omitted. Addition of a relay and wiring change have been started and will be completed in December.

Schematics and wiring diagrams are in the process of being up-dated.

### ENCODERS

"Optisyn" encoders have been installed. A logic module has been borrowed from [ ] for encoder check out. A method of accuracy check out has to be considered that will fit under high power objective lens. There is only 7/32 inch air space under lens for grating on thin glass or film. If customer has any device able to fit into this space, tests will be augmented.

STAT

MANUAL FILM DRIVE

Much work has been done to lower torque to drive mechanism and film. Changing lubricant in special clutch, eliminating chain binding and reducing ratio slightly between handwheel and spool have reduced torque better than 50% of what was previously experienced by customer.

Manifolds still cause a major part of load seen at handwheel. Developments in vacuum holddown system will have to aid this problem.

WIRING

Circuit change involving two (2) multipole relays is complete and operates successfully. Main cabinet control panel, control cabinet and auxiliary cabinet are wired and are now in final check out phases. System will be fired up this month to provide a wider scanning speed range in the "coupled" mode of scan drive operation the zoom magnification factor in scanning velocity is omitted. Addition of a relay and wiring change have been started and will be completed in December.

Schematics and wiring diagrams are in the process of being up-dated.

ENCODERS

"Optisyn" encoders have been installed. A logic module has been borrowed from  for encoder check out. A method of accuracy check out has to be considered that will fit under high power objective lens. There is only 7/32 inch air space under lens for grating on thin glass or film. If customer has any device able to fit into this space, tests will be augmented.

STAT